UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,212	04/02/2004	Steven R. Kleiman	112056-0126D1	2407
	7590 06/06/200 MCKENNA, LLP		EXAMINER	
88 BLACK FA	LCON AVENUE		NGUYEN, THAN VINH	
BOSTON, MA 02210			ART UNIT	PAPER NUMBER
			2187	
			MAIL DATE	DELIVERY MODE
			06/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/817,212	KLEIMAN ET AL.
Office Action Summary	Examiner	Art Unit
	Than Nguyen	2187
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 26 M     This action is <b>FINAL</b> . 2b) ☐ This     Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-16,39-41 and 45-51 is/are pending 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) 1-16,39,40 and 45-51 is/are allowed. 6) ☐ Claim(s) 41 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>02 April 2004</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	☑ accepted or b)☐ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)	<b></b>	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	nte

Application/Control Number: 10/817,212 Page 2

Art Unit: 2187

**DETAILED ACTION** 

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 3/26/08 has been entered.

2. This is a response to the amendment, filed 3/26/08.

3. Claims 1-16,39-41,45-51 are pending.

Response to Amendment/Arguments

4. In response to the amendment to the claims, the previous rejection to claims 1-

16,39,40,47-49,51, under 35 USC 112, second paragraph, is withdrawn.

5. Applicant's arguments, see pages 13-15, filed 3/26/08, with respect to claims 1-

16,39,40,51 have been fully considered and are persuasive. The rejection of these claims has

been withdrawn. After further consideration, the Examiner concludes that the prior art of record

does not further teach the combination of selecting a parity subtraction method or a recalculation

method for parity calculation based on the method that results in a fewest number of read

operations to compute parity.

6. Applicant has neither amended nor address the previous rejection to claim 41. The

current claim 41 is still rejected for the same reasons indicated previously.

Claim Rejections - 35 USC § 102

Application/Control Number: 10/817,212 Page 3

Art Unit: 2187

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

subsection of an application filed in the United States only if the international application designated the United

States and was published under Article 21(2) of such treaty in the English language.

8. Claim 41 is rejected under 35 U.S.C. 102(e) as being anticipated by Corbett (US

6,993,701).

As to claim 41:

9. Corbett teaches a method for managing storage of data in storage blocks, the method

comprising the steps of: generating block layout information (forming stripes; 8/35-52);

dynamically determining a first number of error correction calculations (calculate parity; 9/20-

25; 6/30-35; 12/53-60); dynamically determining a second number corresponding to a chain

length and in response to the block layout information, controlling the execution of an I/O

operation by identifying storage blocks for use by the I/O operation so as to have a chain length

of the second number within a storage device while performing the first number of calculations

of error correction parameters across a stripe (forming/gathering blocks to be written in stripe to

minimize parity calculation; 5/50-67).

. Allowable Subject Matter

10. Claims 1-16,39,40,45-51 are allowed.

11. Claims 45-50 are allowed for reasons indicated in the previous office action.

12. Claims 1-16,39,40,51 are allowed for reasons indicated above.

Application/Control Number: 10/817,212 Page 4

Art Unit: 2187

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Than Nguyen whose telephone number is 571-272-4198. The examiner can normally be reached on 8am-3pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Than Nguyen/ Primary Examiner, Art Unit 2187 Than Nguyen Primary Examiner Art Unit 2187